

Back-end Developer - RheumaFinder

Vacancy: Back-end Developer

As a back-end developer for RheumaFinder (<https://www.rheumafinder.ai>), you will be tasked with further improving our gateway application, which will be deployed within clinical environments. Your responsibilities will be twofold: on one hand, you will further design, develop, and implement advanced elements of medical image routing (DICOM); on the other hand, you will create interfaces for our cutting-edge AI engine. Your work in analysis, coding, and development will be carefully maintained and documented within an ISO-quality framework. In addition to these core responsibilities, you will also play a significant role in developing dashboards and logging tools, managing system administration, and handling both on-premises and cloud-based management tools. Please note, since we are in the early stages of development, you will have a significant influence on the selection of the technology stack.

This position offers numerous opportunities for on-the-job learning and skill enhancement through various courses. Moreover, you will benefit from direct coaching by experts in both the technology and medical fields, enriching your professional development. You will have the opportunity to grow along with the business as one of the earliest employees.

What is the company's value proposition?

Rheumatism is a collective name for about two hundred acute and chronic disorders that affect our musculoskeletal system (muscles, tendons, joints) and the associated connective tissue. Rheumatic diseases are systemic diseases, in other words they can manifest themselves all over the body and affect organs such as blood vessels, kidneys, liver, lungs and heart. There is no age indication on rheumatic diseases. Babies and young children can also develop a rheumatic disease.

RheumaFinder's software is **an advanced AI solution that will detect these rheumatic diseases on medical imaging**. As rheuma is a very prevalent disease (> 5% world population), our solutions will help to solve the problem of **underdiagnosis** (up to 50%) and **delayed diagnosis** (up to 10 years) in rheumatic diseases. If patients with these diseases would remain undiagnosed, progressive joint destruction occurs with subsequent symptoms (pain, limited mobility), decreased quality of life due to a lifelong disease burden and high societal costs. In summary, the value proposition is an AI based automated early detection of signs of rheumatic diseases in medical imaging for diagnosis, follow-up and therapy management.

What you actually will be doing

You will be a **key contributor** to the creation, documentation and continuous improvement of the software foundation of our solutions that will be installed in hospitals and imaging centres all over the world. You will be at the core of a growing DevOps team and will report directly to the CTO of the company. You will work closely with the quality, AI-engineering and data scientist teams to create the end-solution.

You really like to learn new things, share this knowledge within the team, and get things done. You are very excited about AI and its added value on clinical outcomes. Your work will help ensure our technology is compliant with all relevant regulations, and will help us to achieve **high quality, clinical grade products**.

Your responsibilities:

- key contributor to the development, maintenance and continuous improvements of the back-end RheumaFinder software;
- provider of the end-solution that will be installed with customers;
- conducting thorough testing to ensure the reliability and accuracy of the software solution(s);
- monitoring and report root-cause analysis and implemented measures, in case of quality issues;
- interact with the technical product manager and AI engineering daily.

Qualifications

Competences:

- excellent problem-solving attitude and skills;
- good communication skills;
- the desire to work in a dynamic environment of a young and fast-growing medical technology company;
- demonstration of attention to detail, and the ability to consistently meet high standards required in compliance;
- proficiency in Dutch is highly preferred, along with fluency in spoken and written English.

Technical qualifications:

- Min. bachelor's degree in computer science or comparable track record;
- experience with Python;
- knowledge of technologies such as Linux, Docker (Swarm), AWS (S3, SQS, EC2, Lambda, X-ray ...), Terraform, Sentry and Open Telemetry;
- experience with agile development and thorough understanding of Git(hub) and CI/CD pipelines (CircleCI)
- experience with standards for information security management systems, such as ISO 27001/HIPAA;
- knowledge of DICOM interfacing, PACS workflow and development in a clinical context is preferred;
- experience within quality assurance or regulatory compliance for medical devices is preferred but not mandatory;
- experience with interfacing AI-models/engines (or other compute-intense processes) in a workflow is a bonus

About RheumaFinder BV

RheumaFinder is an ambitious start-up company in the exciting AI medical imaging domain. Ultramodern offices are in Ghent, Vlasgaardstraat 52. Office is hosted in the **Watt Factory** (<https://wattfactory.be>).

As you will be one of the first employees of a growing company, you will gain significant experience in the wonderful dynamic of start-up and later on scale-up phase of a new company.

As a growing company, your personal development is stimulated such that your skills and capabilities grow with the needs of the company. We believe in the strength of a **collaborative** and **open-minded** team motivated to **seamlessly** shape the future of medical imaging. We are a community of reliable and competent professionals with the strong drive to always improve ourselves, our work and our product. Everyone is encouraged to bring out the best in others.

Our offer

This is what we offer you:

- a position for 32-40 hours;
- a market conform salary depending on your experience, with additional holiday and pension allowance, and optional bonus in shares;
- work at the heart of the Ghent start-up scene with a team of smart and ambitious people;
- a unique opportunity to become part of a med-tech startup with vast growth potential;
- work that has a proven positive impact on people's health and life;
- work in a startup environment where you get freedom, responsibility and a direct impact.

For more information or to apply about this position please send an email with a short motivation and CV to info@rheumafinder.com or simply give us a call **+32(0)472 78 67 11**.

Application closes on sept 27, 2024.